

## All-Poly High Purity

Hydrophobic Membrane

### Pleated Teflon® Membrane Cartridges

Harmsco® High Purity Pleated Cartridges are manufactured for use in most applications where absolute rated filtration is needed.

- Long service life
- High flow rates
- Low pressure drop
- High permeability

#### Features

- ▶ High efficiency for critical filtration applications
- ▶ Pleated design for extended surface area
- ▶ Polypropylene end cap, thermally welded to media, cage and core
- ▶ FDA Listed Materials for potable water/liquid foods
- ▶ USP Class VI - 121°C (250°F) for plastics
- ▶ 8.5 square feet of filtration media per 9-3/4" cartridge
- ▶ Offered in multiple lengths and end cap configurations to fit in competitive filter housings



Pleated Teflon® Membrane Cartridges

#### Applications

- ▶ Sterile Air
- ▶ Venting
- ▶ Photographic Solutions
- ▶ Reagent and Electronic Grade Chemicals
- ▶ Prefiltration Prior To Membrane Filters
- ▶ DI and RO Feedwater Prefiltration
- ▶ Aggressive Fluids
- ▶ Process Water
- ▶ Fine Chemicals
- ▶ Plating Chemicals
- ▶ Wastewater
- ▶ Pharmaceuticals and Biologicals



## Specifications

### Construction Materials

**Filtration Media**.....Teflon® Membrane  
**Support Media**.....Polypropylene  
**End Caps**.....Polypropylene  
**Center Core**.....Polypropylene  
**Outer Support Cage**.....Polypropylene  
**O-rings/Gaskets**.....Buna, Viton, EPDM, Silicone, Teflon® Encapsulated Viton

### Dimensions

**Length:** 10 to 40 inches (25.4 to 101.6 cm) nominal  
**Outside Diameter:** 2.7 inches (7.0 cm) nominal

### Toxicity

All polypropylene components meet the specifications for biological safety per USP Class VI: 250°F (121°C) for plastics.

### Media Surface Area

8.5 square feet per 9-3/4" length

### Max. Recommended Operating Conditions

**Change Out**.....ΔP 35 PSI; **Temperature**.....200°F (93°C)

### FDA Listed Materials

Manufactured from materials which are listed for food contact applications in Title 21 of the U.S. Code of Federal Regulations.

### Sanitization/Sterilization

**Filtered Hot Water** .....176°F (80°C) for 30 minutes

**Steam Sterilization** .....250°F (121°C) for 30 minutes, multiple cycles.

**Chemicals:** cartridges are chemically compatible with most chemicals and sanitizing agents.

**Note:** stainless steel insert option needed for all cartridges being hot water sanitized or steam sterilized.

## Cartridge Selection/Sizing Guide

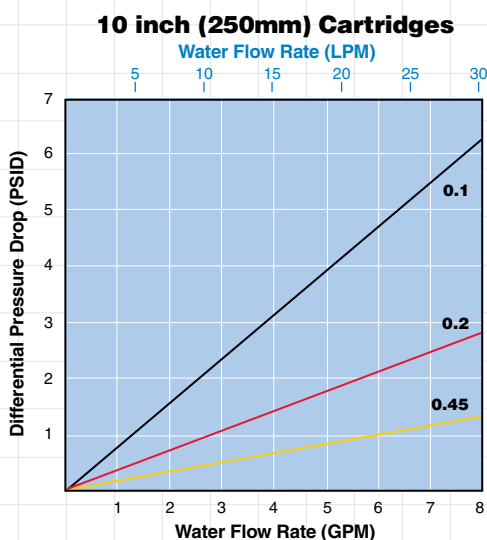
Packed 6 per case, with cartridges individually bagged and cartoned.

✓ Model	✓ Length	✓ Micron Size	✓ End Cap Code	✓ O-Rings/Gaskets	✓ Adders
TF	975 (9-3/4")	0.1	DOE (double open end)	E (EPDM)*	I (stainless steel insert)
	195 (19-1/2")	0.2	213 (internal o-ring)	B (Buna)	HP (heavy poly core)
	20 (20")	0.45	222 (flat cap)	S (Silicone)	
	2925 (29-1/4")		222-F (fin)	V (Viton)	
	30 (30")		222-S (spring)	T (Teflon Encapsulated Viton)	
	40 (40")		226 (flat cap)		
			226-F (fin)		
			226-S (spring)		

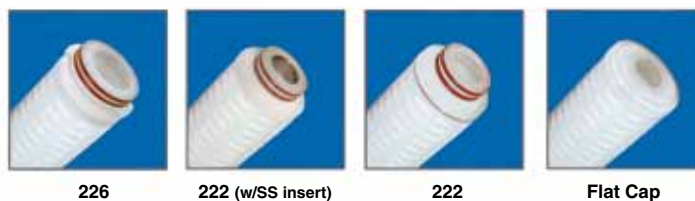
Example: TF – 195 – 0.45 – 222-F – E

\*EPDM is standard for all o-rings and gaskets, unless otherwise noted.

## Flow Rate



## Cartridge End Cap Configurations



**Note:** This publication is to be used as a guide. The data within has been obtained from many sources and is considered to be accurate. Harmsco does not assume liability for the accuracy and/or completeness of this data. Changes to the data can be made without notification. Temperature, Pressure, Flow Rates, Differential Pressures, Chemical Combinations and other unknown factors can affect performance in unknown ways. **Limited Warranty:** Harmsco warrants their products to be free of material and workmanship defects. Determination of suitability of Harmsco products for uses and applications contemplated by Buyer shall be the sole responsibility of Buyer. The end user/installer/buyer shall be liable for the product's performance and suitability regarding their specific intended applications. End users should perform their own tests to determine suitability for each application.



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